U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

07/22/2022

Well Name: HUERFANO UNIT

Well Location: T26N / R10W / SEC 4 / SESE / 36.512589 / -107.895218

County or Parish/State: SAN JUAN / NM

Well Number: 62

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM01366

Unit or CA Name: HUERFANO UNIT--PC

Unit or CA Number: NMNM78395A

US Well Number: 3004506020

Well Status: Gas Well Shut In

Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2682178

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 07/15/2022

Time Sundry Submitted: 07:08

Date proposed operation will begin: 08/01/2022

Procedure Description: Hilcorp Energy Company requests permission to P&A the subject well per the attached procedures, current and proposed wellbore schematics. The Pre-Disturbance Site Visit was held on 4/7/2022 with Roger Herrera/BLM. The Re-Vegetation Plan is attached. A closed loop system will be used.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Huerfano_Unit_62_P_A_NOI_Packet_20220715070805.pdf

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Operator: HILCORP ENERGY COMPANY

Conditions of Approval

Additional

General_Requirement_PxA_20220722083341.pdf

2682178_NOIA_62_3004506020_KR_07222022_20220722083330.pdf

26N10W04PKpc_Herfano_Unit_62_20220721152012.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: AMANDA WALKER

Signed on: JUL 15, 2022 07:08 AM

Name: HILCORP ENERGY COMPANY

Title: Operations/Regulatory Technician

Street Address: 1111 TRAVIS ST.

City: HOUSTON **State:** TX

Phone: (346) 237-2177

Email address: mwalker@hilcorp.com

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Approved

Disposition Date: 07/22/2022

Signature: Kenneth Rennick

Hilcorp Energy Company

P&A Procedure

General Information			
Well Name	Huerfano Unit 62	**Date:**	7/14/2022
API:	30-045-06020	**AFE #**	
Field:	San Juan	**County**	San Juan
Status:	Well is ACOI		
Subject:	Permanently P&A wellbore		
By:	M. Wissing		

Well Data

Surface Casing: 8-5/8" 28# J-55 at 120'

Production Casing: 5-1/2" J-55 15.5# 8rd at 2,408'

Production Tubing: 2-3/8" J-55 4.7# at 2,270'

Current Perforations: 2,278'-2,302'

Current PBTD: 2,323' (Cmt plug)

SICP = 52 psig; SIBP: 0-1 psi since 1997

Hold PJSM prior to begin all operations. Properly document all operations via the JSA process. Ensure that all personnel onsite abide by HEC safety protocol, including PPE, housekeeping, and standard guidelines. Verify cathodic protection is off and wellhead instrumentation is properly disconnected from the wellhead. Comply with all NMOCD, BLM, and HEC safety and environmental regulations. Verify there is no H2S present prior to beginning operations. If any H2S is present, take the necessary actions to ensure that the location is safe prior to beginning operations. Observe and record pressures across all strings daily, prior to beginning operations.

Remember to notify NMOCD and BLM 24 hours prior to starting operations on location. This procedure is contingent upon P&A sundry approval by BLM & NMOCD.

P&A Rig Procedure

1. MIRU P&A rig and equipment. Record pressures on all strings.
2. Unseat rod string (tbg pump) and TOOH with rod string & pump internals.
3. NU BOP & test. TOOH with 2-3/8" production tbg & tbg pump.
4. RIH with 5.5" 15.5# casing scraper to +/- 2,240'.
5. MU 5.5" CICR and RIH with 2-3/8" work string. Set CICR at 2,240'.
    a. **Top PC perf at 2,278'.**
6. Load wellbore with KCl water and circulate wellbore clean. Pressure test the casing to 500 psi to verify wellbore integrity and plug set.
7. **Plug #1 (PC top & top perf at 2,278', FRC top at 1,900':** RU cementers and pump a 330' balanced cmt plug inside the 5-1/2" csg from 1,900' – 2,230', using 8 bbls (39 sx) of 15.8+ ppg Class G cmt.
8. TOOH with tbg string.
9. RU E-line and RIH with CBL tool. Long well to locate TOC.
    a. *Temp survey shoes TOC at 1,150'.*
    b. *Run CBL tool before plug #1 depending on time of day.*
10. Verify BH pressure is 0 psi.
11. **Plug #2 (Kirtland top 1,433', Ojo top at 1,203')** RU cementers and pump a 380' balanced cmt plug inside the 5-1/2" csg from 1,103' – 1,483', using 9.2 bbls (45 sx) of 15.8+ ppg Class G cmt.
12. RU E-line and RIH with circulating charges. Perf 5-1/2" csg at 120'. Establish circulation with 8-5/8" x 5-1/2" csg.
13. **Plug #3 (Surface csg shoe at 120'):** RU cementers and pump a 380' inside/outside cmt plug inside the 5-1/2" csg and 8-5/8" x 5-1/2" annulus from 0'-120', using 7 bbls (34 sx) of 15.8+ ppg Class G cmt.
14. Verify all pressures on all strings are at 0 psi.
15. ND BOP. Cutoff wellhead below grade and weld on labeled P&A marker. Top off wellbore with cmt as needed and fill cellar with 1 ft of cmt.
16. RDMO P&A rig.

Hilcorp Energy Company

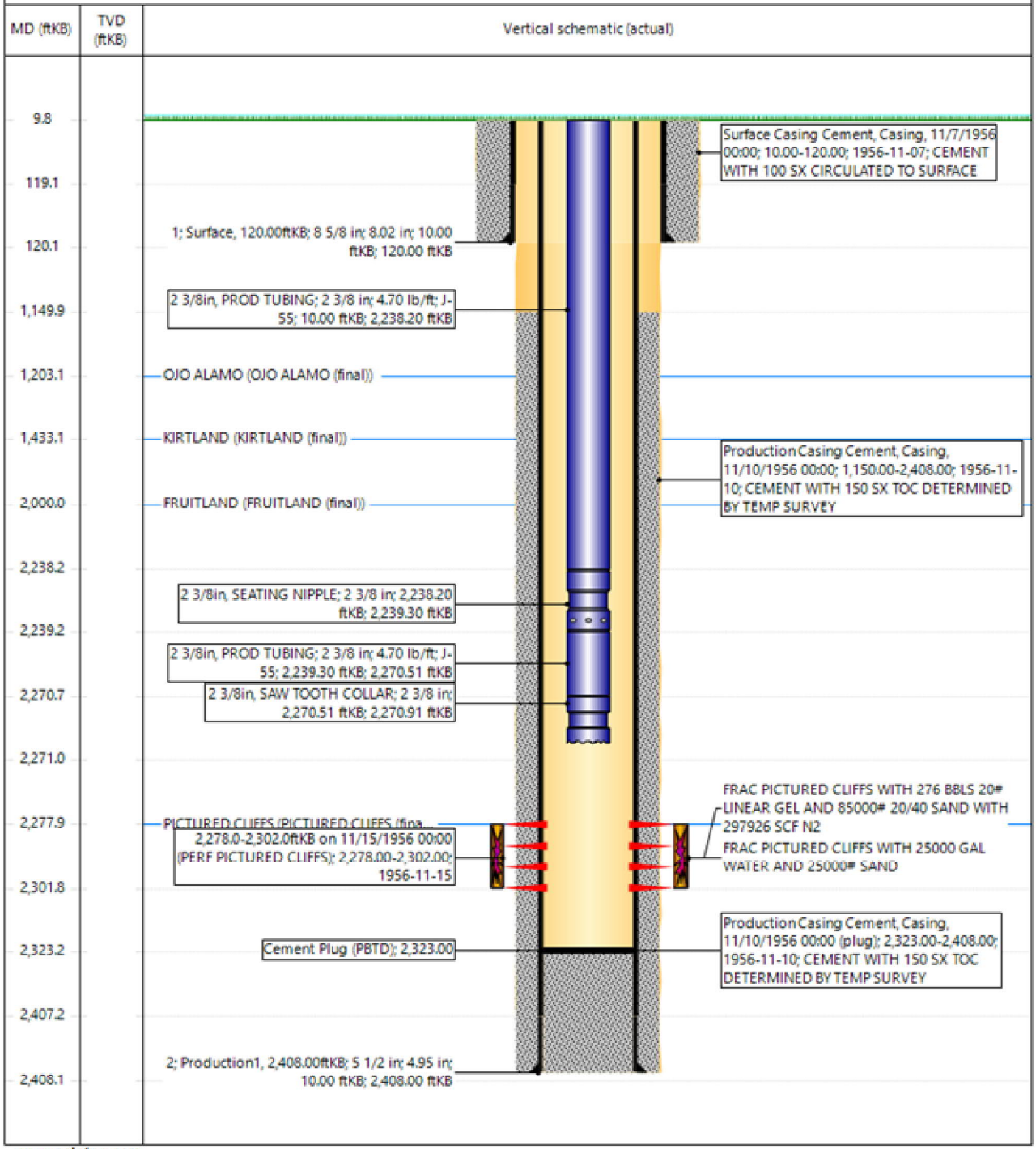
Current Schematic - Completion Comments

Well Name: HUERFANO UNIT #62

API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3004506020	004-026N-010W-P	KUTZ WEST (PICTURED CLIFFS)	0606	NEW MEXICO	

Ground Elevation (ft)	Original KB/RT Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
6,698.00	6,708.00	10.00		

Original Hole



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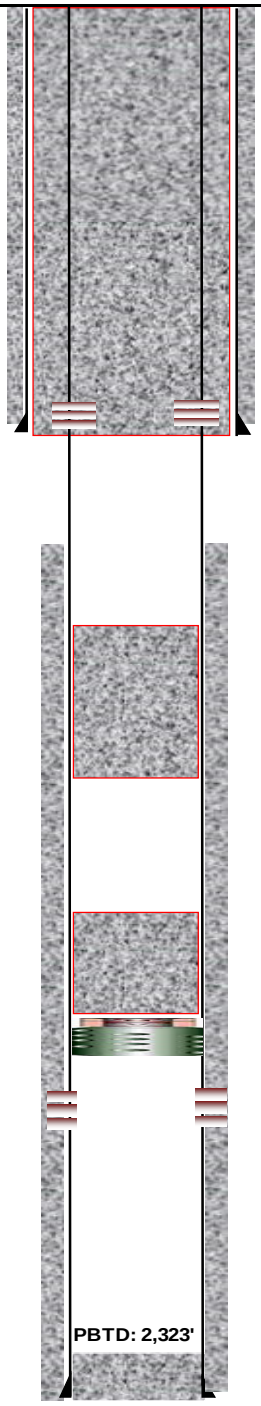
Hilcorp Energy Company

Wellbore Schematic - PROPOSED

Cut Whd and weld P&A Marker

SPUD: 11/7/1956



170' Cmt plug from 0' - 120'
7 bbls (34 sx) Class G,1.15 yl, 15.8# cmt
Perf 5-1/2" csg at 120'

12-1/4" hole
8-5/8" 28.5# J-55 8rd Csg @ 120'
Cmt'd w/ 100 sx; cmt to surface

TOC at 1,150' by Temp survey, 1956

Ojo Formation Top (1,203')

Kirtland Formation Top (1,433')
380' Cmt plug from 1,103' - 1,483'
9.2 bbls (45 sx) Class G, 15.8# cmt

Fruitland Coal Formation Top (2,000')

330' Cmt plug from 1,900' - 2,230'
8 bbls (39 sx) Class G, 15.8# cmt
CICR set at 2,230'

PC Perfs: 2,278' - 2,302'

Pictured Cliffs Formation Top (2,278')

PBTD: 2,323'

7-7/8" hole
5-1/2" 15.5# 8rd Csg @ 2,408'
Cmt'd w/ 150 sx
TOC by temp survey 1,150'

WELL NAME/NUMBER	DESCRIPTION		Ground Elevation:
HUERFANO UNIT #62	**Proposed P&A WBD**		**RKB-THF:** 10 ft **CFH:**
FIELD/LEASE/AREA	**PREPARED BY**	**APPROVED/DATE**	
San Juan Basin- Area 6	M. Wissing	7/14/2022	**API #** 30-045-06020

Hilcorp Energy
P&A Final Reclamation Plan
Huerfano Unit 62
API: 30-045-06020
T26N-R10W-Sec.4-Unit P
LAT: 36.51259 LONG: -107.89522 NAD 27
Footage: 990' FSL & 990' FEL
San Juan County, NM

1. PRE- RECLAMATION SITE INSPECTION

   A pre-reclamation site inspection was completed with Roger Herrera from the BLM and Eufracio Trujillo, Hilcorp Energy SJ South Construction Foreman on April 7, 2022.

2. LOCATION RECLAMATION PROCEDURE

   1. Reclamation work will begin in summer.
   2. Removal of all equipment, anchors, flowlines, cathodic, and pipelines.
   3. All trash and debris will be removed within a 50' buffer outside of the location disturbance during reclamation.
   4. Close BGT when results of sampling are favorable.
   5. Rip compacted soil and walk down disturbed portion of well pad.
   6. Remove all gravel from berms, pads, and meter run and use on lease road where needed.
   7. Round out southern edge of location and push around road.
   8. Hilcorp Energy meter run will be removed. Riser will be barricaded and blinded.

3. ACCESS ROAD RECLAMATION PROCEDURE

   The well access road will be closed by rounding entrance out into reclaim.

4. SEEDING PROCEDURE

   1. A Sagebrush seed mix will be used for all reclaimed and disturbed areas of the well pad and lease road.
   2. Drill seed will be done where applicable, and all other disturbed areas will be broadcast seeded and harrowed. Broadcast seeding will be applied at a double the rate of seed.
   3. Timing of the seeding will be when the ground is not frozen or saturated.

5. WEED MANAGEMENT

   1. No noxious weeds were identified during this onsite.

GENERAL REQUIREMENTS FOR PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES FARMINGTON FIELD OFFICE

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densometer/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

4.6 **A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.**

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.

5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.

5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.

5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.

6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H_2S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

AFMSS 2 Sundry ID 2682178

Attachment to notice of Intention to Abandon

Well: Huerfano Unit 62

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."

2. The following modifications to your plugging program are to be made:
   a) Length of Plug #3 (Surface shoe) is inconsistent between the P&A description and proposed well bore diagram. Ensure Plug #3 covers the interval from 170' – Surface inside/outside the casing.

3. Farmington Office is to be notified at least 24 hours before the plugging operations commence at (505) 564-7750.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

K. Rennick 7/22/2022

BLM FLUID MINERALS
P&A Geologic Report

Date Completed: 07/21/2022

Well No. Huerfano Unit #62 (API# 30-045-06020)		Location	990 FSL	&	990 FEL	
Lease No. NMNM78395A		Sec. 04	T26N		R10W	
Operator Hilcorp Energy Company		County	San Juan	State	New Mexico	
Total Depth 2408’	PBTD 2323’	Formation	Pictured Cliffs			
Elevation (GL)		Elevation (KB)	6712’			

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					
Nacimiento Fm			Surface	1203	Surface/possible freshwater sands
Ojo Alamo Ss			1203	1433	Aquifer (possible freshwater)
Kirtland Shale			1433	2000	Possible gas
Fruitland Fm			2000	2278	Coal/Gas/Water
Pictured Cliffs Ss			2278	2408	Gas
Lewis Shale			2408	PBTD	
Chacra					
Cliff House Ss					
Menefee Fm					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison Fm					

Remarks:
P & A

- Length of Plug #3 (Surface shoe) is inconsistent between the P&A description and proposed well bore diagram. Ensure Plug #3 covers the interval from 170’ – Surface inside/outside the casing.

- The plugs proposed in the P&A procedure will adequately protect any freshwater sands in this well bore.

- Pictured Cliffs perfs 2278’ – 2302’.

Reference Well:
1) **Formation Tops**
Same

Prepared by: *Chris Wenman*

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 128155

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 128155
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	CBL required	7/28/2022
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	7/28/2022
kpickford	Adhere to BLM approved plugs and COAs. See GEO Report	7/28/2022